

## Lui Sheng Jie

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### Summary

Final year Computer Engineering Undergraduate from the National University of Singapore (NUS). I will be graduating in December 2019 and have prior experiences in Computer Vision and Software Development.

I was part of the team at Good For Food where I researched and experimented on various machine learning models for food waste classification. I was responsible for the development of their initial food waste image recognition prototype and was also involved in providing technical demonstrations to stakeholders.

Currently, I am interning at Vebits AI, a start-up that utilises Computer Vision to address issues due to traffic fatalities. I am involved in developing an end-to-end solution for driver behaviour recognition which involves data preparation, testing and fine-tuning deep learning models for real-time behaviour recognition. I am also involved in developing software applications (Android / PyQt) used for deployment.

### Education

|                     |   |           |
|---------------------|---|-----------|
| Aug 2016 – Present  | <b>National University of Singapore</b><br>Bachelor of Computing (Honours) in Computer Engineering (4.37 / 5.0) | Singapore |
| Aug 2014 – Aug 2016 | <b>National Service</b>   | Singapore |
| Aug 2011 – Jan 2014 | <b>Nanyang Polytechnic</b><br>Diploma in Electrical Engineering with Eco-Design (Merit)                         | Singapore |

### Work Experience

|                       |   |           |
|-----------------------|---|-----------|
| May 2019 – Present    | <b>Vebits</b><br><i>Computer Vision Engineer Intern</i> <ul style="list-style-type: none"><li>- Develop data collection pipeline to collect training data used to train deep learning models.</li><li>- Train and deploy deep learning model for driver behaviour recognition.</li></ul>  | Singapore |
| May 2018 – Nov 2018   | <b>Good For Food</b><br><i>Software Engineer Intern (Computer Vision / Machine Learning)</i> <ul style="list-style-type: none"><li>- Research and experiment on machine learning models for food waste image recognition.</li><li>- Responsible for the development of Good For Food's food waste image recognition system (prototype)</li><li>- Provide technical demonstrations to key stakeholders</li></ul> | Singapore |
| Feb 2018 – April 2018 | <b>SGDriven</b><br><i>Android Developer (Intern)</i> <ul style="list-style-type: none"><li>- Worked on camera related issues due to Android fragmentation</li><li>- Testing and Debugging</li></ul>   | Singapore |
| Jan 2018 - Feb 2018   | <b>Stylo Industries</b><br><i>Android Developer (Intern)</i> <ul style="list-style-type: none"><li>- Worked on the minimum viable product for the Stylo Android app</li></ul>   | Singapore |
| May 2017 – July 2017  | <b>NUS Office of Student Affairs</b><br><i>Web Developer</i> <ul style="list-style-type: none"><li>- Developed the microsite used for NUS Freshman Orientation Camp 2017</li></ul>  | Singapore |

## Scholastic Achievements/Extracurricular Activities

|                         |  |           |
|-------------------------|--|-----------|
| May 2019 – Present      | <b>NUS Orbital Summer Programme</b><br>- Advisor for the Orbital Summer Programme  | Singapore |
| Sep 2018 – Jan 2018     | <b>Udacity Deep Learning Nanodegree</b><br>- Completed the Udacity Deep Learning Nanodegree  | MMOC      |
| May 2018 – Nov 2018     | <b>NUS Overseas College (Singapore)</b><br>- Completed the NUS Overseas College Singapore programmed (NCSG 22)<br>- Interned at Good For Food as a Software Engineer working on Food Waste Image Recognition | Singapore |
| May 2018 – August 2018  | <b>NUS Orbital Summer Programme</b><br>- Advisor for the Orbital Summer Programme<br>- Prepared and curated the content for the Android Development workshop   | Singapore |
| May 2017 – August 2017  | <b>NUS Orbital Summer Programme</b><br>- Completed the NUS Orbital Summer programme (Project Gemini)   | Singapore |
| May 2015                | <b>Singapore Power Bronze Medal</b>  | Singapore |
| Nov 2013 - April 2014   | <b>Singapore Amazing Flying Machine Competition (SAFMC)</b><br>- Champion award (Gold)<br>- Best Performance award (Silver)  | Singapore |
| April 2013 - April 2014 | <b>Directors List (Nanyang Polytechnic)</b><br>Semester 1, Semester 2  | Singapore |
| April 2012 - April 2013 | <b>Directors List (Nanyang Polytechnic)</b><br>Semester 1, Semester 2  | Singapore |
| Aug 2011 - April 2012   | <b>Directors List (Nanyang Polytechnic)</b><br>Semester 2  | Singapore |

## Skill Sets & Proficiency

|                                  |  |  |
|----------------------------------|--|--|
| <b>Programming</b>               | Java<br>Python<br>C  | Proficient<br>Proficient<br>Intermediate   |
| <b>Framework &amp; Libraries</b> | OpenCV<br>TensorFlow + Keras<br>PyTorch<br>Android Studio<br>Flask<br>PyQt | Proficient<br>Intermediate<br>Intermediate<br>Intermediate<br>Intermediate<br>Intermediate |
| <b>Server Management</b>         | Google Compute Engine  | Intermediate   |

## Language Proficiency

|                |                                      |
|----------------|--------------------------------------|
| <b>Spoken</b>  | English – fluent; Mandarin – fluent  |
| <b>Written</b> | English – competent; Chinese – basic |